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1. MDA13-025: Innovative Advancement and Maturation of Propulsion Materials

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Identify, develop, and mature novel, high temperature, and high performance materials for rocket propulsion systems such as SM-3 Blk2B to reduce density, cost, and/or foreign reliance and to increase insulative capability, geometric stability, ablation resistance, and/or increase maturity level. DESCRIPTION: MDA divert and boost propulsion systems have stringent material perf ...

SBIR Missile Defense Agency

2. MDA13-026: Seeker Sensor System for a Projectile Based Kill Vehicle

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Innovative concepts for a seeker sensor system on a hypersonic gun launched projectile. The seeker sensor system should be capable of surviving a gun launch and provide guidance for hypersonic projectiles. DESCRIPTION: Current Ballistic Missile Defense (BMD) systems utilize missile interceptors to place a maneuvering kill vehicle onto an intercept course with an enemy ballis ...

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3. MDA13-027: Divert and Attitude Control System for a Projectile Based Kill Vehicle

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Innovative concepts to place a Divert and Attitude Control System (DACS) onto a hypersonic gun launched projectile. This will enable low cost projectile based ballistic missile defense systems. DESCRIPTION: Current Ballistic Missile Defense (BMD) systems utilize missile interceptors to place a maneuvering kill vehicle onto an intercept course with an enemy ballistic missile. ...

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4. MDA13-028: High Frame Rate and Dual Band Infrared FPA Sensors for Interceptors

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: To develop advanced Infrared Focal Plane Array (IR FPA) sensors for next generation ballistic missile defense applications that enable long distance target acquisition with light-weight/small optical systems. DESCRIPTION: Infrared Focal Plane Arrays (FPAs) are essential components in Ballistic Missile Defense (BMD) interceptor seeker system for the detection of infrared radi ...

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5. MDA13-029: Copper Wire Bonding Assurance for Microcircuits in Military Applications

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop product assurance and reliability prediction methods for microcircuit copper wire bonds used in military applications. DESCRIPTION: This project will develop reliability prediction models and screening, lot sampling, and qualification test methods to assure that copper wire bonds meet military application requirements across the broad range of military application envir ...

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6. MDA13-030: Complex Electronic Assembly Cleanliness Requirements

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop cleanliness requirements for microelectronics in high reliability, long-life military applications. DESCRIPTION: This project will develop suitable cleanliness requirements and test methods to assure reliability of microelectronic assemblies across the broad range of military application environmental and operating stresses. The primary reliability impacts of insuffici ...

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7. MDA13-031: Advanced Solid Propellants for Insensitive Munitions Compliant Interceptor Systems

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop and demonstrate solid propellant formulations for large solid rocket motors (SRM) (21"diameter and up) that meet Department of Defense (DoD) insensitive munitions (IM) and MIL-STD-2105D requirements as well as 1.3C or better hazard classification while maintaining high performance capability. DESCRIPTION: Defending against current and future ballistic missile threats re ...

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8. MDA13-032: Advanced Liquid Propellants for Insensitive Munitions Compliant Interceptor Systems

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop and demonstrate liquid propellant formulations that meet Department of Defense (DoD) Insensitive Munitions (IM) requirements while maintaining high performance capability. The goal is to develop and demonstrate liquid propellants for advanced interceptor systems (boosters and Divert and Attitude Control Systems (DACS)) that can be proven to be safe for storage, handling, transp ...

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9. MDA12-T004: EOIR Debris Management during ascent phase for C2BMC

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: To characterize debris fields and derive a technique which enables system understanding of the debris field and any enclosed objects. DESCRIPTION: During observation from space based electro-optic or infra-red, EOIR, sensors, a missile complex may present debris clouds during boost or mid-course phases of flight. These clouds may appear as various geometric configurations from diff ...

STTR Missile Defense Agency

10. MDA12-T005: Post Intercept Debris Predictions for EO/IR Scene Modeling

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop an innovative set of physics-based software tools and models to predict both prompt and late time electro-optical/infrared (EO/IR) signatures associated with the debris cloud generated after a missile intercept. The models should be fast-running, should address current and future missile intercept scenarios covering anticipated altitudes and closing velocities, and should be gr ...

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